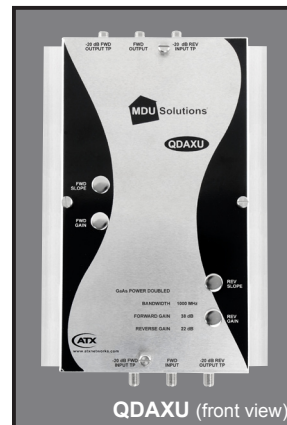




QDAXU 870-1000 Distribution Amplifier:

Features:

- ▶ MDU amplifier with 870-1000 MHz bandwidths & high level/high slope output capability
- ▶ Normally shipped with active 2-way amplification with 22 dB of gain in return path
- ▶ A “PR” passive return option without 22 dB gain stage is also available
- ▶ Forward amplifier options include GaAs power-doubled & cascaded GaAs power-doubled technology in various gain choices
- ▶ GaAs technology versions have high output level capability & a low noise figure
- ▶ Fixed equalizer socket & plug-in pad socket in front end can accommodate wide range of input signal levels
- ▶ Plug-in hybrids & accessories
 - ▶ No need to order pads or EQs
 - ▶ Shipped with 3 spare EQs
 - ▶ Shipped with variable input pad
- ▶ Variable gain & tilt interstage controls
- ▶ UL approved switching power supply with 100-240 VAC input range
- ▶ Plug-in interstage EQ can be used to extend output slope capability
- ▶ 5-42 MHz return bandwidth
- ▶ 2-way return path has an input test point & plug-in input pad before the amplifier. The return circuit has variable slope & gain control after amplifier
- ▶ 20 dB return path output test point can be used to set output levels
- ▶ Forward amplifier output test point can be used to insert return path carriers while monitoring the carriers signal level at the return path input test point &/or the return path output test point when setting levels
- ▶ In order to reduce heat within the amplifier housing and increase reliability, the QDAXU normally ships with a switching power supply with 100-240 VAC input & 24 VDC output. However, the QDAXU is also available with our “LP” universal line powering power supply, which is an integrated UL approved switching power supply with a convenient EIC-320 AC cord interface



QDAXU Specifications

SPECIFICATIONS	870 MHz				1 GHz	RETURN AMP
	QDAXU 30GP	QDAXU 35GP	QDAXU 40GP	QDAXU870 35/40CGP	QDAXU1000 xxCGP	Low Current
BANDWIDTH (MHz)	54 to 870	54 to 870	54 to 870	54 to 870	54 to 1000	5 to 42
FREQUENCY RESPONSE	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB	+/- 0.5 dB
GAINS AVAILABLE (dB)	30	35	40	35, 40	33, 35, 38, 40	22
CHANNEL LOADING	128	128	128	128	128	7
RETURN LOSS (Worst Case)	14 dB	14 dB	14 dB	14 dB	14 dB	16 dB
GAIN CONTROL RANGE	10	10	10	10	10	10
SLOPE CONTROL RANGE	15	15	15	15	15	5
OUTPUT LEVELS (dBmV)	44 / 34	44 / 34	44 / 34	51 / 41	51 / 41	50
DISTORTIONS	CROSS MOD. (-dB)	n/a	n/a	n/a	n/a	n/a
	COMP. TR. BT. (-dB)	73.4	72.4	72.7	59.4	59.4
	COMP. 2nd ORD. (-dB)	71.4	71.7	68.9	63.6	63.6
NOISE FIGURE	5.8 dB	5.0 dB	5.0 dB	5.3 dB	5.3 dB	3.0 dB
DC AMPERES @ 24 VDC	.76	.76	.76	.86	.86	.135
POWER DISSIPATION (Watts) ⁽¹⁾	23	23	23	26	26	4

NOTE:
 (1) Power dissipation measured at 120-volt input to UL approved switching power supply. DC amperes is internal voltage regulator loaded.

QDAXU 870-1000 Distribution Amplifier:

Ordering Information

Example Part Number: QDAXU-<u>xx</u>-870 - <u>35</u> CGP 2W	
	1 2 3 4
1: LP = Universal Line Powering PR = Passive Return -- = Active Return	
2: Frequency: 870 = 870 MHz 1000 = 1 GHz	
3: Gain (See Specifications Table)	
4: Output Technology: CGP = Cascaded GaAs Power-Doubled GP = GaAs Power-Doubled	
Part Number	Description
Options & Spares	
MNxEQ	1000 MHz EQs, 0-16 dB in 1 dB steps. This EQ is used in the input. 4 EQs shipped with unit.
IPB- ** OT	Plug-in attenuator pads, ** = 0-20 dB in 1 dB steps. Variable pad included with unit.
QPS2425	For spare only. 100 to 240 VAC input, 24 VDC output Switching Power Supply (for units with black silk screen purchased after August 21, 2010 only).
#951	For spare only. 120 to 26 VAC Power Transformer, 50 VA (for units with blue silk screen purchased prior to August 21, 2010 only).
Shipping Weight	7.5 lbs (3.40 kg)
Dimensions	9.125"H x 7.0"W x 3.562D" (23.18H x 17.78W x 9.05D cm)

Functional Schematic

